## **WE CLAIM:**

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1. A device for plumbing drainage systems said device comprising:

a first tubing element having an attachment bell at one end and a first coupler portion at the other end;

a second tubing element having an attachment bell at one end and a second coupler portion at the other end, wherein said first and second coupler portions are sized and shaped to be coupled together; and at least one of said first or second tubing element is a generally u-shaped section sized and shaped to trap water therein; and

a connector to releasably couple said first and second coupler portions together, said connector including a sealing gasket, said sealing gasket, first coupling portion and second coupling portion being sized and shaped to permit said first and second coupler portions to be coupled together over a range of angles to form a leak resistant joint.

- 2. The device of claim 1 further including an angle stop, for limiting
- said range of angles, said stop being sized, shaped and positioned to ensure a downstream element of said first and second elements is angled to promote drainage.
- 3. The device of claims 1 or 2 wherein one of said first and second coupler portions comprises a bulb and the other of said first and second coupler portions comprises a socket sized so that said bulb may be closely received within said socket, said seal being sized and shaped to be inserted between said bulb and socket to form a liquid tight seal.

4. The device of claim 3 wherein said bulb includes a part spherical outer surface.

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- 5. The device of claim 4 wherein said coupling portion defines a tubular section for the passage of waste therethrough and said part spherical outer surface has a center of curvature located approximately on a centerline of tubing section.
- 6. The device of claim 5 wherein said part spherical section subtends an arc of between about 30° and 60° in a vertical plane.
- 7. The device of claim 1 wherein said connector may be tightened onto said coupler portions, said connector acting on said seal to form a leak resistant joint.
- 8. The device of claims 1 or 2 wherein said seal is in the form of a ring which is generally wedge shaped in cross section and which has an inner seal surface, an outer seal surface and a bottom thrust face.
  - 9. The device of claim 8 wherein said outer seal surface is generally conical.
- 20 10. The device of claim 8 wherein said inner seal surface is sufficiently compressible to become part spherical.
  - 11. The device of claim 8 wherein said bottom thrust face is generally planar.
  - 12. The device of claim 8 wherein said seal is molded from a plastic material.
- 13. The device of claim 8 wherein said seal is formed from a material which is at least partially compressible to form a liquid tight seal.

- 14. The device of claim 12 wherein said seal is made from molded low density polyethylene.
- 15. The device of claim 1 wherein said first connector portion and said second connector portion define a generally wedge shaped gap therebetween and said seal is sized and shaped to be received in said wedge shaped gap.
- 16. The device of claim 15 wherein said connector is threaded onto one of said first and second connecting portions and includes a rim, said rim comprising a thrust surface for thrusting said seal into said wedge shaped gap.
- 17. A device for plumbing drainage systems, said device comprising:

a first tubing element having an attachment bell at one end and a first coupler portion at the other end;

a second tubing element having an attachment bell at one end and a second coupler portion at the other end, at least one of said first and second tubing elements being generally U-shaped and sized and shaped to trap water therein;

wherein said first and second coupler portions are sized and shaped to permit said first and second coupler portions to be snapped together over a range of angles to form a leak resistant joint.

18. A device as claimed in claim 1 wherein one of said first and second coupler portions is a female part having a part spherical inner surface, and the other of said coupler portions is a male part having a part spherical outer surface.

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